Ben Wang

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Profile: *

I'm a PHD student of Computer Science in University of Essex. My research topic is *Multimedia Database*. I already have five years programming experience in Java, c/c++, with a wide range of interest in the E-Commerce Programming. Proven skills involve analysis, design, programming and problem solving in web-site building, database information retrieval.

My skills include:

1. Web Application Programming
    a. J2SE platform (3-tier programming): JSP (presentation tier); Java Beans (object with getting and putting methods, middle tier); SQL Server or MS Access (odbc, jdbc database access; database tables and relationship design). Web server uses Tomcat. Lot of programs have been done. JUnit (assert line) is used to test Java Beans.
    b. J2EE platform: I have knowledge in EJB (transactions, security, database connectivity), and Web Service (JAX-RPC, Soap) based on the J2EE Server. Several courses in my E-Commerce Technology MSC are based on this platform (see *major courses I have learned* section).
    c. Microsoft platform: ASP + IIS web server + SQL Server 7.0 database. A project was finished on this platform.
    d. Linux platform: PHP + APACHE web server + MySQL database. A project was finished on this platform.

2. Research Fields
    a. *Database Warehouse and Data Mining*. It has been defined as "the nontrivial extraction of implicit, previously unknown, and potentially useful information from database".
        My thesis entitled "Database Warehouse for On-line Web Application" was submitted for MSC of Computer Control System, 2001.
    b. *XML Database*. It is the special database tailored for the storage of XML data, which represents an exciting new opportunity for improvement in the storage and manipulation of data and metadata. Apache XINDEX, TEXTML, and DB2 XML Extender are also deeply evaluated and compared. The thesis entitled "Online Full-text Search

Application based on native XML Database" was submitted for MSC of E-commerce Technology.

c. *Information Retrieval in Multimedia Database*. Key issues in this area include how to index, retrieve and store high-dimensional multimedia documents and their segments efficiently in the media database. This is my current research topic. (http://cswww.essex.ac.uk/Research/students.htm).

Career History and Projects:

Oct 2002 – Present   **Distributed Face Recognition System**

This is a PHD research project. Face recognition, belonging to the family of computationally intensive applications, requires high-performance systems to perform its calculations. To solve the calculations in near real-time requires a scalable distributed multi-component framework system, which includes "area face detector", "information flow control", "face recognition" and "face image storing and indexing in media database". JMF, JINI java technology is involved.

Parameterized Scalable Vector Graphics (SVG)

This is an application of soap-based technology. A client can set preferred parameters in XML format to the server side, and the server generates the SVG Scalable Vector Graphics (SVG) format, and then send the generated SVG back to client and display it.

Essex Human Rights Journal Web Sites

This project is still under developing. The web site is under developing and its function is especially for Journal and includes management of user information, automatic email response, web statistics, and file archives, etc.

Oct 2001 - April 2003   **Graduate Teaching Assistants of Six Courses**

CC252-2-SP: OBJECT ORIENTED PROGRAMMING
CC254-2-AU: INTRODUCTION TO DATABASES
CC351-3-AU: ADVANCED OBJECT ORIENTED
                 PROGRAMMING
CC432-G-SP: XML AND RELATED TECHNOLOGIES
CC435-G-SP: AGENT TECHNOLOGY FOR E-COMMERCE
CC451-G-AU: PROGRAMMING WITH JAVA (DOUBLE
                 MODULE)

Mar 2001 - Jun 2001   **Active Web Server Project**

Project URL: http://www.textclick.com
Programed by ASP, IIS web server,
SQL Server 7.0 database.

May 2000 - Dec 2000   **A Electronic Company's Home Page Project**
Project URL: http://www.handsome.com.cn/
Programed by by PHP,
APACHE web server, MYSQL database.

July 1999 - Feb 2000   **Network Manager** (Part-time)
Deal with problems of the network for
Computer department in the University.

Education Qualifications: *

University of Essex   **PHD – Computer Science**
 2002 – present   Research Topic: Multimedia Database

University of Essex   **MSC** - **E-commerce Technology**
 2001-2002   The Average Marks: 70

Zhejiang University of Tech   **MSC** - **Computer Control System**
 1999-2001   'A' Class

Zhejiang University of Tech   **BSC - Computer Application**
 1995-1999   'A' Class

Major courses I have learned: *

1. Software Theory:

Software Engineering
Programming Data Structure
Computer Compiler Theory
Natural Language Engineering
Relational and Object-Oriented Databases

2. Computer Application and Programming:

E-Commerce Programming (JSP, ASP, Servlets, Java Beans, JDBC)
Advanced Java Programming (Object-Oriented Programming, Object-to-Database
             and Database-to-Object Mapping, RMI, Multi-Threads, UML Design)
Enterprise Component Architecture (EJB, WEB Service, COBOL)
Agent Technology for E-Commerce (Java RMI, XML)
XML and Relative Technology (XML-based Java Programming, SOAP Protocol)
Computer Interface (Java Swing / AWT)
Image Processing (C/C++)
Operation System Programming (C language)

3. Computer Control:

    Mathematics of Control Theory
    Computer Network
    Artificial Intelligence
    Digital Signal Processing

Personal Details: *

Insurance Number: SC 28 80 17 B

Date of Birth: 10 June 1976

Sex   :   Male

Marital Status: Married

Personal Interests: Programming, football, pop music and reading.

Referees: *

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